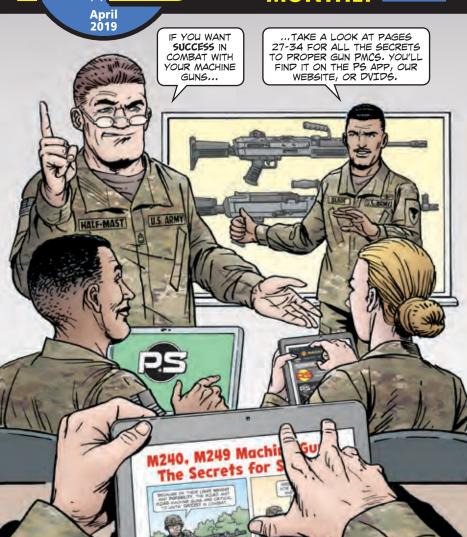


PREVENTIVE MAINTENANCE MONTHLY

TB 43-PS-797

Approved for Public Release; Distribution is Unlimited





ISSUE 797 APRIL 2019



COMBAT VEHICLES

Stryker Steering Damper Damage Check M1A2 Tank CROWS WSCP Switch Damage M1-Series Tank Gun Mount Travel Lock Pin M1-Series Tank Track Skirts Caution Stryker Brake System Check M88-Series Fuel Injector Line Chafing M88-Series Engine Startup and Shutdown M104 Wolverine Bridge Exercise



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TB 43-PS-797, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for all Soldiers assigned to combat and combat support units and all Soldiers with unit maintenance and supply duties. All information published has been reviewed and approved by the agency responsible for the equipment, publication or policy discussed. Agictaion of the information is optional with the user. Masculine pronouns may refer to both genders. The use of product or company names does not constitute endorsement of those products, services or companies by the U.S. Army. The use of non-Dob hyperlinks, along with their content, does not constitute endorsement by DoD or DA. Neither DoD nor DA exercises any editorial control over, and cannot vouch for, content on non-Dob websites.

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NEXT, CONTACT THE EXPERTS:

AMC'S LOGISTICS ASSISTANCE REPS
(LARS), FORSCOM'S COMMAND
MAINTENANCE EVALUATION TRAINING
(COMET) TEAMS AND DLA'S
CUSTOMER SERVICE TEAMS.

LARS HELP SOLVE WEAPONS SYSTEM, EQUIPMENT, LOGISTICS AND TRAINING ISSUES. COMET TEAMS FOCUS ON ACTIVITIES, PRACTICES, AND PROCEPURES RELATED TO LOGISTICS READINESS. DLA'S CUSTOMER SERVICE REPS ADDRESS SMS-CODED SUPPLY QUESTIONS.



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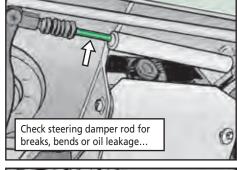


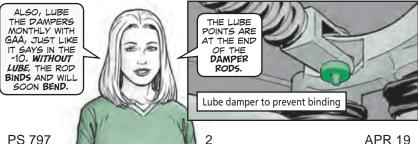
Drivers, have you ever had a rough day behind the wheel of your Stryker? And by rough, we mean a bumpy ride. That can happen without steering damper PM.

Just like your car has shock absorbers to smooth out the ride, your Stryker has dampers that act as stabilizers for the steering system.

When the going gets rough, things can also get rough for the dampers. Rocks and heavy brush take a toll. That's why you need to crawl under your Stryker for a visual inspection, especially after driving over rough terrain.

Look for a bent or broken rod or evidence of oil on the cylinder that could indicate a leaking wiper seal. See any problems? Let your mechanic know.





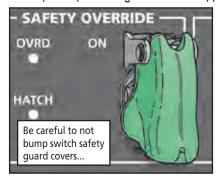
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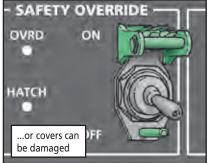


Dear Editor,

Crewmen need to watch their step when entering their M1A2 SEP tank through the commander's hatch. One wrong move and the tank could end up NMC!

That's because it's real easy to damage the switch safety guards on the common remotely operated weapons station's (CROWS) weapon station control panel (WSCP) while squeezing into the tank. I've seen way too many switch safety guards get broken because of one wrong move with a foot or elbow, or a bump with personal gear. If that happens, the CROWS is out of action.





So be sure to take care when climbing in and out of your tank and make sure those switch safety guards are safe from carelessness!

CW2 John Mercado Ft Hood, TX

Editor's note: That's a CROWS safety tip worth crowing about!

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PIN DOWN TRAVEL LOCK PIN



Dear Editor,

Crewmen need to make sure the gun mount travel lock pin is secure **before** firing their tank's main gun. A pin that's left dangling can get jammed when the main gun recoils. That can cause damage or even keep the gun from fully recoiling into the ready position.

The pin is attached to a length of chain that keeps it from getting lost. If the pin isn't secured, it can hit the gunner's auxiliary sight knobs. It only takes a few hits by the heavy pin to crack or break the knobs.





When not in travel lock, fully insert the pin into the main gun bracket. That keeps the pin out of the way until it's needed again. Check out the -10 TM for more info.

SSG Clarence Porter Ft Hood, TX Editor's note: Sergeant, thanks for pinning down these travel lock tips!

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DON'T LET SKIRT DISASTER BEFALL YOU!

Dear Editor,

I've seen some M1-series tank crewmen take risks when doing maintenance on the track and suspension. And by risks, I mean they disregard what the -10 TM says and open two skirts on the same hinge point. That's awfully dangerous!

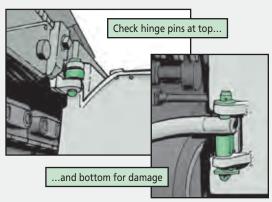
The skirts are very heavy. The hinge points are between skirts 1 and 2, 3 and 4, and 5 and 6. If the hinge breaks while the skirts are open, someone could be seriously injured or even killed when the skirt falls.

Crewmembers should also be sure to check for missing or damaged hinge pins when opening a skirt. A bad or missing pin can also cause a skirt to fall.

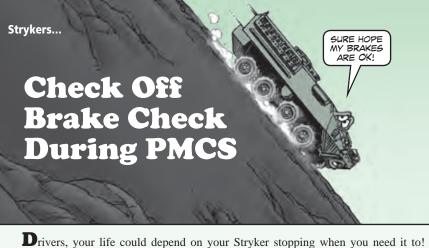
> SSG Robert Porter Ft Hood, TX

Editor's note: Crews would be wise to not skirt over these skirt warnings!





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Drivers, your life could depend on your Stryker stopping when you need it to! That's why checking the brake system is such an important part of Before PMCS.

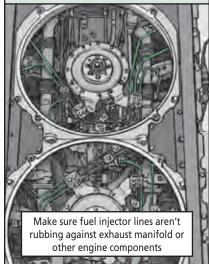
engage the parking brake and make sure the warning indicator is illuminated. Apply the brake pedal and move the gear shift selector to 3. Release the brake and ensure the parking brake holds. Then move the gear shift Engage parking brake selector to N. When the air and ensure warning pressure gauge reaches 120 psi, indicator is illuminated shut down the engine, press the brake pedal three times and hold it Move gear shift selector to N and make sure after the third time for one minute. parking brake holds Make sure AUX and AUTO are in the ON position. If the air pressure gauge drops or you hear any air leaks, tell a mechanic right away. PMCS ISN'T DONE UNTIL YOU CHECK

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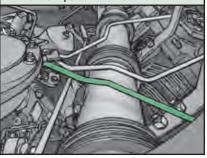


ECHANICS, THE NEXT TIME YOU REMOVE YOUR M88-SERIES RECOVERY VEHICLE'S REAR ARMOR DECK AND ENGINE COOLING FANS, INSPECT THE STEEL FUEL INJECTOR LINES FOR SIGNS OF **CHAFING**.

A FIRE CAN HAPPEN IF ONE OF THE HIGH-PRESSURE LINES DEVELOPS A LEAK. SO IF A LINE SHOWS SIGNS OF **CHAFING**, HAVE FIELD MAINTENANCE **REPLACE IT**.



IF A LINE IS RUBBING AGAINST THE EXHAUST MANIFOLDS OR OTHER ENGINE COMPONENTS BLIT SHOWS NO SIGNS OF CHAFING, BEND THE LINE SO THERE'S AT LEAST 1/8-INCH OF CLEARANCE.



AFTER THE LINES
ARE INSPECTED
AND/OR REPLACED,
INSTALL THE FANS
AND TURN THEM
BY HAND TO MAKE
SURE THE FANS
AREN'T HITTING
THE LINES.

MOTE:
BEFORE INSTALLING
ENGINES PRAWN
FROM THE SUPPLY
SYSTEM, MAKE
SURE THEIR FUEL
LINES ARENT
RUBBING AGAINST
ANY OF THE ENGINE
COMPONENTS.

FOR MORE INFO, CHECK OUT TACOM GROUND PRECAUTIONARY MESSAGE 18-010 AT: https://tulsa.tacom.army.mil/Safety/message.cfm?id=GPA18-010.html

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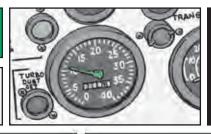


IT'S EASY TO GET IN A HURRY AND RUSH THINGS, ESPECIALLY AT THE BEGINNING OR END OF A MISSION. BUT YOU **DON'T** WANT TO RUSH WHEN IT COMES TO STARTING AND SHUTTING DOWN YOUR M88-SERIES RECOVERY VEHICLE'S ENGINE.

ALWAYS

START AND SHUT DOWN
THE ENGINE EXACTLY
LIKE IT SAYS IN THE -10.

Idling engine at proper rpms will protect it from damage during warm up and shutdown



IT'S VERY
IMPORTANT
TO ALLOW
TIME FOR
THE ENGINE
TO WARM
UP AFTER
STARTING AND
COOL DOWN
BEFORE
SHUTPOWN.

Engine Warm Up

IDLE THE ENGINE AT 1,000 TO 1,200 RPMS AND LET THE ENGINE WARM UP FOR THREE MINUTES.

THEN REPLICE THE IPLE TO 675 TO 725 RPMS FOR THE A1 AND 825 TO 875 RPMS FOR THE A2.

Engine Shutdown

IDLE THE ENGINE FOR THREE TO FIVE MINUTES AT 1,000 TO 1,200 RPMS.

THEN REDUCE THE IDLE TO 675 TO 725 RPMS FOR THE AT OR 825 TO 875 RPMS FOR THE AZ BEFORE SHUTTING THE ENGINE DOWN.

FOLLOWING THE ENGINE STARTUP AND SHUTDOWN PROCEPURES EXACTLY AS THE TM SAYS WILL HELP PROTECT THE ENGINE FROM DAMAGE...

...AND KEEP YOUR RECOVERY VEHICLE COMBAT READY.

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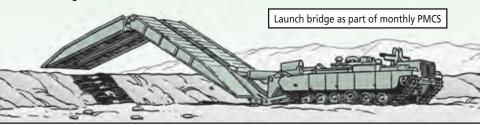


Dear Editor,

EXERCISE!

Exercise is a great thing in the Army, especially when it comes to the M104 Wolverine's bridge.

Sometimes Wolverine crewmen overlook a very important monthly PMCS check. The bridge should be exercised, in other words launched, once a month.



Regular exercise for the bridge is a good way to make sure that it's working the way it should. After all, that's the primary mission of the Wolverine!

Launching the bridge is also the only way you can do certain PMCS checks. For example, inspecting the bridge drive sprockets, mounting pins and bearings for damage can only be done with the bridge on the ground.

So exercise your right to good preventive maintenance by launching those Wolverine bridges every month, just like it says in the -10 TM.

SGT Scott Means Ft Hood, TX

Editor's note: Thanks, SGT Means! That's a great reminder for all Wolverine crews.

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Premature Wear Triggers TM Change

I CAN'T BELIEVE I BLEW ANOTHER SET OF TIRES! I'M SO EMBARRASSED!





TIRES WEAR OUT, THAT'S EXPECTED, BUT WHEN MAINTAINERS NOTICED PREMATURE WEAR ON THE INTERIOR SIDEWALLS OF M1112 WATER TRAILER TIRES, THEY KNEW SOMETHING WASN'T RIGHT.

TURNS OUT, THERE WASN'T ENOUGH CLEARANCE BETWEEN THE REAR TIRES AND THE WALKING BEAM ARM, THE TIRES WERE RUBBING AGAINST THE METAL ARM, CAUSING PREMATURE WEAR AND SOMETIMES EVEN BLOWOUTS!

TACOM RULED OUT SEVERAL POTENTIAL CAUSES, INCLUDING A SPINDLE SPACER AND INCORRECTLY SIZED PARTS.

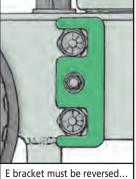


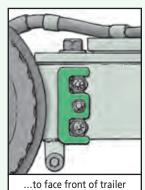
The Parts

PACKING RETAINER:

LISTED AS ITEM 3, THE ORIENTATION OF THIS E BRACKET, NSN 5330-01-448-3347, HAS BEEN REVERSED.

WHEN FIELD MAINTENANCE PERFORMS THE WALKING BEAM ALIGNMENT IN WP 0049, THIS BRACKET SHOULD BE ROTATED 180 DEGREES SO THAT THE BOLT OPENINGS ARE FACING THE FRONT OF THE TRAILER.





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MOUNTING PLATE:

LISTED AS ITEM 18, THE WIDTH OF THIS PLATE HAS BEEN REDUCED OVERALL BY 11/8 INCHES.

THE PART NUMBER HAS ALSO CHANGED TO 12635589.

FIELD MAINTENANCE SHOULD ORDER A NEW PLATE TO GET THE CORRECT SIZE.

THE PRICE IS A BIT STIFF AT MORE THAN \$2K, BUT WILL BE UPPATED WHEN A NEW CONTRACT IS IN PLACE. MEANWHILE, A PRICE CHALLENGE HAS BEEN SUBMITTED.



THE WALKING
BEAM ALIGNMENT
PROCEPURE
SHOWN IN
WP 0049 OF
TM 9-2330397-13&P
JSN'T CORRECT.

INSTEAD,
FOLLOW THESE
STEPS, BEGINNING
WITH STEP 10 OF
THE CURRENT
PROCEPURES.



BE SURE TO USE A NEW PLATE AND CHANGE THE ORIENTATION OF THE PACKING RETAINER, AS DESCRIBED ABOVE. **Step 10:** Push rear arm assembly toward rear of trailer until fully extended.

Step 11: Pull rear arm assembly forward approximately one-half inch. Distance from front to rear spindle, measured from dead center, should be 37 inches.
Note: All remaining items are found in Fig 2.

Step 12: Tighten adjusting bolt (Item 13) enough to engage stop. Continue tightening until adjusting bolt flats align with bracket (Item 14).

Step 13: Install bracket (Item 14), washer (Item 12), and screw (Item 11).

Step 14: Tighten two bolts (Item 7) six full turns. Continue tightening until first flats align with retainer (Item 10). Rear arm should be centered in front frame of the walking beam. Inspect inboard and outboard rear arm spacing to make sure it's centered. If not, it'll cause severe tire wear.

Step 15: Reverse retainer bracket (Item 10) so opening is facing front of trailer. Install retainer bracket, washer (Item 9) and screw (Item 8).

Step 16: Tighten bolt (Item 15) to secure two washers. Continue tightening until flats align with strapping (Item 18). Slide strapping on bolt.

Step 17: Tighten setscrew (Item 16) enough to engage inner walking beam. Tighten setscrew nut (Item 17).

Step 18: Torque bolts (Item 1) to 120-130 lb-ft until capscrew aligns with guard (Item 2).

Step 19: Install guard (Item 2), clamp (Item 3), washer (Item 5), and bolt (Item 4).

FLOOR PLATE FIASCO





Dear Half-Mast,

We have an M1087A1P2 Expansible Van with broken floor plates. One of our Soldiers forgot to flip them up as the sides were retracting, and it cracked the front and rear plates.

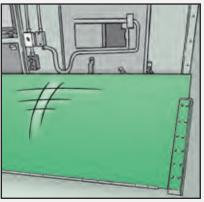
Now they have to be replaced, but I can't find an NSN for them. Please help!



APR 19

s article to save or email.





Parts Problems

WHILE WE'RE ON THE SUBJECT OF PARTS FOR THE MIO87AIPE EXPANSIBLE VAN, WE SHOULD ALSO MENTION THAT A CHANGE IS IN THE WORKS TO FIX MISPRINTS IN TM 9-2320-333-13&P (JUN 15).

	Item	Name	Correct NSN
	1	Support side platform	2590-01-559-7182
	2	Side platform assembly	2590-01-559-7026
	3	Plain hexagon nut (4 ea)	5310-00-245-3615
	4	Flat washer (8 ea)	5310-00-625-5756
	5	Support bracket (2 ea)	5340-01-575-6487
	6	Lock washer (4 ea)	5310-00-974-6623
	7	Machine bolt (4 ea)	5306-00-226-4828
	8	Wire rope assembly, single leg (2 ea)	4010-01-575-5604
	9	Quick-release pin (2 ea)	5315-01-300-2640
	10	Shoulder screw (2 ea)	5305-00-450-1917
	11	Lock washer (2 ea)	5310-00-984-7042
	12	Plain hexagon nut (2 ea)	5310-00-477-6768
	13	Side kick plate assembly	5340-01-575-8873
И И	> 14	Quick-release pin (2 ea)	5315-01-426-8858
	15	Wire rope lanyard (2 ea)	4010-01-536-8279

THE INSTALLATION PARTS SHOWN FOR THE SIPE PLATFORM, ITEMS 1-16 OF FIG 1391, ALL HAVE LINES POINTING TO THE **WRONG** PARTS.

ITEMS 1 AND 2 ALSO HAVE THE WRONG NAMES.

ITEM 1 SHOULD BE THE SUPPORT SIDE PLATFORM.

ITEM 2 SHOULD BE THE SIDE PLATFORM ASSEMBLY.

UNTIL THE TM IS UPDATED, USE THIS CHART TO ORDER THE RIGHT REPLACEMENT PARTS: FMTV...

BUYER BEWARE!



Dear Editor,

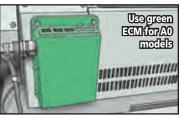
I've noticed a lot of units order the wrong FMTV central tire inflation system (CTIS) electronic control module (ECM) because they're using TM 9-2320-366-24P-1 and -2, which are only for AO models.

When they order CTIS parts from the AO manual, they receive a **green ECM**, NSN 2530-01-375-1483. Even though that CTIS ECM only works in the AO model, they're installing it on A1 models.

The green CTIS ECM doesn't have the circuitry to support the A1 model, so it causes electrical damage to the wiring and many of the vehicle's control units, including critical systems like the engine and transmission. It rips circuit breakers, over-exerts resistors, and may even block the network altogether.

Units should order the black CTIŠ ECM, NSN 2530-01-521-8242, for the FMTV A1. However, you'll only find the correct NSN in TM 9-2320-391-23&P in IETM EM 0369 (OCT 17) using the Electronic Maintenance System-Next Generation (EMS-NG). Many FMTV equipment failures have occurred simply due to this error.

CW4 (Ret) Brook Turner Schofield Barracks, HI





Editor's note: Good catch, Chief! Mechanics, always make sure you're using the right TM for the vehicle model.

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HEMTT... **Containment Berms: Optional or Required?**



Is there a requirement for HEMTT tankers to carry fuel containment berms onboard? If so, what's the NSN? I can't find it listed in the IETM.

CPT S.A.V.

THERE'S NOT AN ACTUAL REQUIREMENT FOR A HEMTT FUEL BERM, CAPTAIN, BUT ...

...INDIVIDUAL STATES MAY REQUIRE BERMS OR OTHER HAZMAT GEAR THAT ISN'T LISTED IN A VEHICLE'S TM.

CHECK WITH YOUR JAG OR LEGAL ADVISORS TO DETERMINE THE STATE AND/ OR LOCAL REQUIREMENTS IN YOUR AREA.



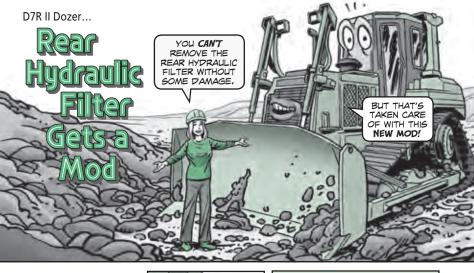
THE M978 HEMTT TANKER'S FUEL BERM IS NSN 4235-01-621-7288, IT'S NOT LISTED IN THE IETM SINCE IT'S NOT REQUIRED FOR HEMTT TANKERS.



CONTAINMENT BERMS ARE AVAILABLE FOR MULTIPLE VEHICLES, BUT THERE ARE TOO MANY TO LIST HERE. EMAIL US IF YOU'D LIKE A LIST OF BERMS AVAILABLE FOR ALL ARMY VEHICLES:

usarmy.redstone.asc.mbx.psmag@mail.mil

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YOU MECHANICS KNOW IT'S A TIGHT SPOT TO REMOVE OR INSTALL THE POZER'S REAR HYDRAULIC FILTER. THAT'S BECAUSE

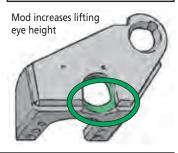
THERE'S NOT ENOUGH CLEARANCE

BETWEEN THE FILTER'S CAP AND DOZER'S LIFTING EYE.

THAT MEANS SOME FORCE IS NEEDED TO REMOVE THE FILTER.

END RESULT:

Lack of clearance means a busted filter during removal THE GOOD NEWS IS CATERPILLAR WILL MODIFY THE BOTTOM OPEN CIRCLE IN THE REAR LIFTING EYE SO THERE'S ENOUGH ROOM FOR THE FILTER TO GO IN AND OUT WITHOUT THE DAMAGE.





THE LOCAL CATERPILLAR PEALER WILL COME TO YOUR SITE TO MAKE THE MOPIFICATION. CONTACT THE SERVICE ENGINEER, GREG COSTLEY, AT CATERPILLAR TO MAKE ARRANGEMENTS BY EMAILING: COSTLEY_gregory_e@cat.com

REMEMBER

CC THE TACOM POZER TEAM WHEN REQUESTING THE MODIFICATION: usarmy.detroit.tacom.mbx.ilsc-dozers@mail.mil

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DLING THE D7R II

DOZER'S ENGINE FOR
FOUR TO FIVE MINUTES

AT 1/4 THROTTLE
ABOUT 700-800 RPMS
AFTER START UP

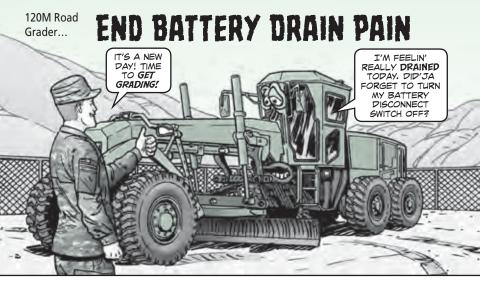
IS A MUST.

THAT GIVES THE ENGINE'S OIL TIME TO LUBRICATE PARTS, IT ALSO LETS THE ENGINE WARM UP ENOUGH TO BOIL OFF CONDENSATION CAUSED BY NORMAL ENGINE BREATHING.

BUT LISTEN UP!

YOU'LL NEED TO INCREASE RPMS
TO 2200-2500 BEFORE ACTUAL
CONSTRUCTION OPERATIONS,
NEW OPERATORS ARE KNOWN
TO FORGET TO INCREASE THOSE
RPMS, THEN THEY WONDER WHY
THE ENGINE KEEPS STALLING.

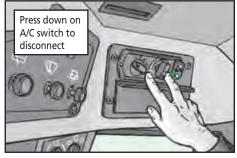


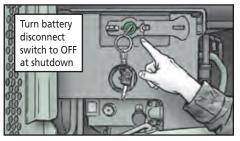


PERATORS, DRAINED BATTERIES ON YOUR 120M ROAD GRADER ARE A BAD WAY TO START THE WORK DAY! BUT THAT'S EXACTLY WHAT HAPPENS IF YOU DON'T TAKE A FEW STEPS DURING SHUTDOWN THE NIGHT BEFORE.

STEP 1: AFTER YOU'VE BEEN WORKING IN THE HEAT ALL DAY, MAKE SURE YOU FLIP OFF THE AIR CONDITIONING (A/C) SWITCH AT SHUTDOWN. OTHERWISE, THE A/C'S ELECTRONIC COMPONENTS WILL CONTINUE TO DRAW POWER EVEN WHEN THE ENGINE IS OFF.

STEP 2: IF THE GRAPER IS
GOING TO BE SITTING A WHILE,
MAKE SURE YOU TURN THE
BATTERY DISCONNECT SWITCH
COUNTERCLOCKWISE TO THE OFF
POSITION AFTER SHUTDOWN,
THAT KEEPS THE DASHBOARD'S
ELECTRICAL SYSTEM FROM
CONTINUING TO PRAW POWER FROM
THE BATTERIES, IT'S ESPECIALLY
IMPORTANT WHEN THE GRAPER IS
IPLE FOR A DAY OR MORE, LIKE
OVER THE WEEKEND.







THE **BATTERY DISCONNECT SWITCH** IS LOCATED **BEHIND** THE ENGINE ACCESS PANEL ON THE **LEFT SIDE** OF THE VEHICLE.

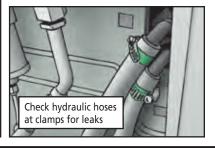
PS 797 18 APR 19

STOP HYDRAULIC HOSE LEAKS!



PAY SPECIAL
ATTENTION TO THE
CLAMP POINTS.
LOOK AND FEEL
FOR ANY RED
HYDRAULIC FLUID.

IF YOU FIND A PROBLEM, YOUR MECHANIC CAN TIGHTEN THE CLAMPS TO STOP ANY LEAKAGE.



THE ELEMENTS LOOSEN THESE CLAMPS.
THAT CAN CAUSE AN OIL LEAK.

RCV Buffalo A2...

AVOID EMERGENCY DOOR MISHAPS



SOME
CREWMEN ARE
LEAVING THE
DOOR OPEN
TO LET AIR
CIRCULATE
THROUGH THE
HULL,

BAD IDEA!

LEFT OPEN, THAT DOOR CAN COME CRASHING DOWN ON YOUR HEAD. TALK ABOUT A BAD HAIR DAY!

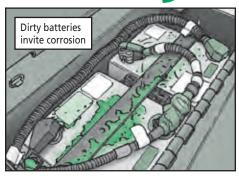


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Battery PM: Do it Again

PERATORS, CHECK YOUR
BACKHOE LOADER (BHL)'S
BATTERIES DURING PMCS FOR
ANY GUMK, CRUD AND COPROSION.
ANY OF THAT CRUD THAT SITS ON
THE BATTERY CAUSES CORROSION.
SO KEEP A CLOSE EYE ON THE
BATTERY HOLD-POWNS. IF YOU
SEE ANY RUST, IT'S NOT GOOD!
CORROSION EATS AWAY AT THE
CABLES AND BRACKETS AND GNAWS
HOLES IN THE BATTERY BOX.
YOUR MECHANIC CAN WASH AWAY
CORROSION WITH A SOLUTION OF
BAKING SODA AND WATER.



Battery Clamp Lowdown

ALL THE BOUNCING AROUND THE WORKGITE CAN ALSO LOOSEN BATTERY CLAMPS, A LOOSE CONNECTION KEEPS YOUR LOADER'S BATTERY FROM STARTING OR RUNNING AT IDLE.

PLAY IT SAFE AND CHECK THE TIGHT-NESS OF THE CLAMPS ON THE TERMINAL USING YOUR THUMB AND ONE FINGER.

IF ANY TERMINAL IS LOOSE, TELL YOUR MECHANIC. HE'S THE ONE TO TIGHTEN IT.

Twice a Year

MECHANICS, IT'S A GOOD IDEA TO PULL THE BATTERIES DURING SEMIANNUAL SERVICES. THAT'S THE **ONLY** WAY TO FIND HIDDEN RUST SPOTS AND PINHOLES IN THE BATTERY BOX.

THOSE SPOTS NEED TO BE SANDED AND PAINTED. HOLES NEED PATCHING AND PATCHES NEED PAINTING BEFORE THE BATTERIES ARE REINSTALLED.

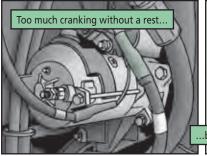
WHILE YOU'RE AT IT, CHECK THE BATTERY BOX VENT HOLE TO MAKE SURE IT'S CLEAR. REMOVE ANY DIRT, RUST OR MUD.

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OU OPERATORS AND MAINTAINERS NEED TO KNOW THAT THE NEW 5K LIGHT CAPABILITY ROUGH TERRAIN FORKLIFT (LCRTF) HAS A STARTER MOTOR WITH A REAL TEMPER!

TM 10-3930-680-10 (PEC 13)
WARNS USERS
NOT TO
"crank the engine continuously for more than 30 seconds. Also, the starter needs to cool for two minutes before cranking the engine again."





TO PUT IT PLAIN AND SIMPLE: IF YOU **DON'T** FOLLOW THIS PROCEPURE, YOU'LL **FRY** YOUR **FORKLIFT'S STARTER MOTOR.** UGH!

NOW LISTEN UP.

WHAT THE TM DOESN'T SAY IS THAT THE 30 SECONDS OF CRANKING TIME IS CUMULATIVE.

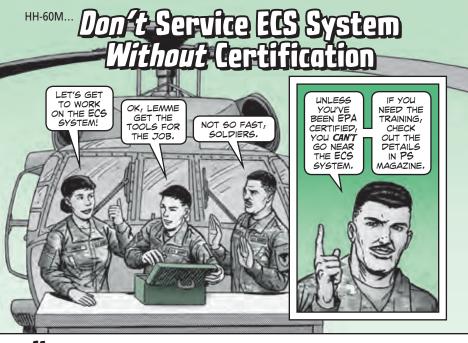
THAT MEANS IF YOU CRANK THE STARTER FOR IS SECONDS, STOP, AND THEN CRANK FOR IS MORE SECONDS, YOU'LL HAVE TO WAIT TWO MINUTES BEFORE TRYING TO START THE ENGINE AGAIN.



BY THE WAY,
THERE'S BEEN A
HUGE STACK OF
PQDRS SUBMITTED
ON THIS STARTER.
AND A LOT OF
'EM CAME FROM
CRANKING TOO LONG.

SO, GIVE THAT
STARTER MOTOR A
BREAK AND LET IT
COOL DOWN IF THE
ENGINE DOESN'T
START RIGHT AWAY.

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Mechanics, although you may think you know how to service your HH-60M aircraft's environmental control system (ECS), it's hands off until you're certified by the Environmental Protection Agency (EPA).

Without that EPA certification, you could face some stiff fines!

Certification is a vailable from L AR U niversity at F t H ood (LARUFH), T X. Units that want to schedule the training should contact Arturo Gamboa or Romulo Ordonez by email at: arturo.o.gamboa.civ@mail.mil or romulo.i.ordonez.civ@mail.mil

The training is free, but units should expect to pay TDY costs for Soldiers traveling to Ft Hood or the TDY costs for the instructors to come to the unit.

These classes are in high demand, so it may be possible to send Soldiers to a unit already scheduled for training. Be sure to coordinate with that unit first.

The training prepares you to take the certification exam to become a Universal Technician as required by 40 CFR Part 82, Subpart F under Section 608 of the Federal Clean Air Act. After passing the test, you'll receive a DD Form 2695 certificate issued by the US Army Aviation Schoolhouse, B CO 1-210th AVN BN, Fort Eustis, VA.

LARUFH offers lessons on the basic and advance theories of operation of the ECS system for the HH-60M aircraft

The course provides students understanding in:

- ECS heating and cooling
- System interface
- Vapor cycle cooling system (VCCS)
- BIT system
- Fault isolation

Click here for a copy of this article to save or email.

The university also offers the Department of Defense (DoD)-sponsored EPA Section 608 Training and Certification Program for proper handling and processing of refrigerants, including:

- ChloroFluoroCarbon (CFC)
- HydroChloroFluoroCarbon (HCFC)
- HydroFluoroCarbon (HFC)

Got questions about certification or training? Contact Dave Dapkus by email at: david.dapkus.ctr@mail.mil

AGSE...

For Want of a Light Bulb



Dear Sergeant Blade,

I have the newly fielded Aviation Light Utility Mobile Maintenance Cart (ALUMMC), NSN 1740-01-632-9476. I'm looking for an NSN for the headlight bulb shown as Item 4 in Fig 16 of TM 1-1740-213-13&P (Feb 16). The TM lists the bulb part number as AM144882.

However, the part number doesn't cross to an NSN in FED LOG. I already have one ALUMMC with a blown light bulb and would like to order some bulbs to build an initial stock. Can you help?

SGT M.B.

Dear Sergeant,

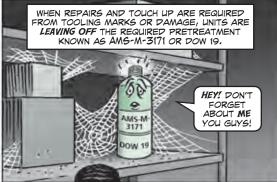
No problem. We can certainly help you out. Order NSN 6220-01-653-9428 to get the new headlight assembly. The assembly actually costs less than the light bulb.

SFC Rotor Blade

EASIER CORROSION TREATMENT

MECHANICS, DATA COLLECTED FROM DA FORM 2410, COMPONENT REMOVAL/REPAIR/INSTALL/GAIN/LOSS RECORD, INDICATES THAT VARIOUS MAGNESIUM HOUSINGS ON AIRCRAFT SUFFER FROM CORROSION.







- the main transmission housing
- input modules
- accessory modules
- intermediate gearboxes
- tail rotor gear boxes

NEW OR REBUILT
GEARBOXES RECEIVE
SPECIAL COATINGS,
WHICH ARE DAMAGED
BY DAILY USE AND
MAINTENANCE.

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PREVENTING CORROSION ON MAGNESIUM REQUIRES PROPER PRETREATMENT AND A FINISHING COAT TO PROTECT THE AIRFRAME AGAINST CORROSION.

HELP AND GUIDANCE CAN BE FOUND IN YOUR SPECIFIC AIRCRAFT IETM OR CHAPTER 5-6 OF TM 1-1500-344-23, CLEANING AND CORROSION CONTROL.

NSN 8030-01-512-2416 (PN AMS-M-3171) BRINGS A SMALL PREPACKAGED KIT. USING IT GENERATES LESS WASTE. IT'S EASY TO USE AND HAS A ONE YEAR SHELF LIFE.

THE ITEMS IN THE KIT ARE HIGHLY CAUSTIC AND FLAMMABLE SO USE IT ONLY IN WELL-VENTILATED AREAS, MAKE SURE THE AREA BEING TREATED IS CLEANED PROPERLY AND THE TREATED COMPONENT IS RINSED THOROUGHLY WITH WATER WHEN FINISHED.





USED RIGHT, THE TREATMENT INCREASES YOUR AIRCRAFT'S CORROSION PROTECTION, PRIMER ADHESION, AND **EXTENDS** THE COMPONENT'S SERVICE LIFE.



'COURSE, ALWAYS PROTECT YOURSELF AND YOUR FELLOW SOLDIERS BY FOLLOWING ALL THE WARNINGS, CAUTIONS AND NOTES IN THE TECHNICAL BULLETINS, IETMS AND SUPPLEMENTAL MANUALS.

ALWAYS CHECK THE SAFETY DATA SHEETS-THE SDS-BEFORE USING ANY CHEMICAL AND MAKE SURE YOU WEAR PERSONAL PROTECTIVE EQUIPMENT.

EVERY PRODUCT'S SDS WILL LIST THE PROPER EQUIPMENT TO WEAR.



FOR UP-TO-DATE CORROSION INFORMATION OR ASSISTANCE, VISIT THE AMCOM CORROSION PROGRAM OFFICE WEBSITE AT: https://amcomcorrosion.army.mil

CHECK OUT CHAPTER 8-5 OF TM 1-1500-328-23 FOR MORE CORROSION INFORMATION AND IF YOU HAVE QUESTIONS, CALL THE CORROSION OFFICE HOTLINE AT DSN 897-0209 OR (256) 313-0209.



...SO IT'S **IMPORTANT** TO CHECK TO MAKE SURE YOU LIST IT **CORRECTLY**ON THE ACCOUNTABLE PROPERTY SYSTEM OF RECORD.

THE RQ-11B RAVEN SMALL UNMANNED AIRCRAFT SYSTEM (SUAS), NSN 1550-01-538-9256 (LIN 583835), HAD TWO MODIFICATION WORK ORDERS (MWOS) APPLIED SINCE 2008. AS A RESULT, THREF DIFFERENT NSNS WERE ASSIGNED. MWO 1-1550-1695-50-2 (OCT 08), MODIFIED THE RAYEN WITH A DIGITAL DATA LINK (DDL). MWO 1-1550-1695-50-1 (FEB 12) ADDED A GIMBAL PAYLOAD UPGRADE.

BECAUSE OF THESE CHANGES, UNITS NEED TO INSPECT THEIR RAVENS TO ENSURE THE VERSION THEY HAVE ON-HAND IS CORRECTLY LISTED IN THEIR ACCOUNTABLE PROPERTY SYSTEM OF RECORD.



HERE ARE THE THREE VERSIONS AND THEIR NSNS:

- Raven Analog System, NSN 1550-01-538-9256 (PN 54429-004/007)
- Raven DDL Fuselage, NSN 1550-01-587-2765 (PN 60163)
- Raven DDL fuselage with gimbal payload upgrade, NSN 1550-01-621-5533 (PN 60163G)

THE MAIN DIFFERENCE BETWEEN THE TWO MODIFICATIONS IS THE ADDITION OF THE GIMBAL PAYLOAD TO THE SYSTEM.

NEED HELP IN IDENTIFYING THE DIFFERENT VERSIONS OF THE RAVEN? DOWNLOAD THE RQ-11B SYSTEM IDENTIFICATION INSTRUCTIONS DOCUMENT AT: https://www.ako1.us.army.mil/suite/doc/50252680

GOT QUESTIONS?

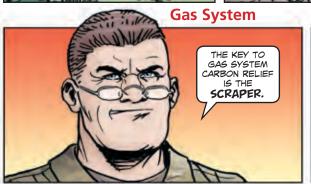
CONTACT ADAM MAURO, (256) 313-3798, OR EMAIL: adam.e.mauro2.civ@mail.mil

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M240, M249 Machine Guns: The Secrets for Success







EACH SCRAPER
PART IS DESIGNED
TO SCRAPE AWAY
CARBON FROM
DIFFERENT PARTS
OF THE GAS
SYSTEM. AND THE
SOONER YOU USE
THE SCRAPER, THE
EASIER THE JOB IS.

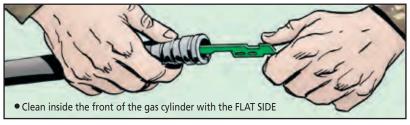
THE LONGER CARBON SITS, THE HARDER IT GETS. EVENTUALLY IT BECOME LIKE ENAMEL.

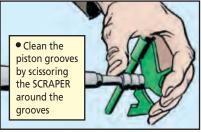
SO GRAB YOUR SCRAPER ASAP AFTER FIRING AND CLEAN LIKE THIS ...

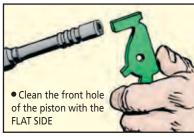




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FOR THE CHAMBER, USE THE CHAMBER BRUSH AND CLP. IF YOUR M249 OR M240 HAS TROUBLE EXTRACTING, A QUICK CLEANING OF THE CHAMBER USUALLY FIXES THE PROBLEM.

CLP POES A GOOD JOB OF CLEANING OFF CARBON, BUT IT ALSO POES A GOOD JOB OF COLLECTING CARBON.

SO NEVER USE CLP OR ANY OTHER LUBES ON THE BARREL'S GAS REGULATOR HOLE, THE GAS REGULATOR, THE GAS CYLINDER OR THE OP ROD'S PISTON END.

CLEAN CARBON OFF THOSE PARTS WITH THE SCRAPER ONLY.

NO CLP.







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FOR THE M249, DURING BOTH SUSTAINED FIRE (40 ROUNDS PER MINUTE) AND RAPID FIRE (100 ROUNDS PER MINUTE), CHANGE THE BARREL EVERY 200 ROUNDS.

FOR THE M240, CHANGE BARRELS EVERY
10 MINUTES DURING SUSTAINED FIRE (100 ROUNDS
PER MINUTE) AND EVERY TWO MINUTES DURING
RAPID FIRE (200 ROUNDS PER MINUTE).

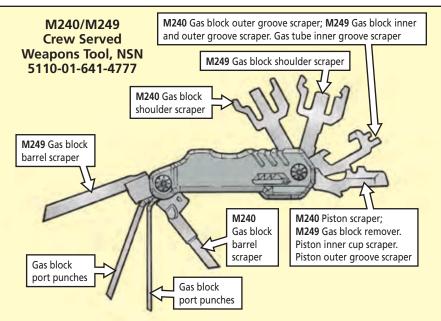
FOR GOSH SAKE, CHANGE MY BARREL. THAT'S WHY I HAVE A SPARE BARREL! IF YOUR SCRAPER AND ELBOW GREASE JUST WON'T CLEAN OUT ALL THE CARBON, YOUR SMALL ARMS REPAIRMAN CAN DO THE JOB WITH SOLVENT.





IF YOU'RE USING AN OUTDATED VERSION OF TM 9-1005-201-10, YOU'LL FIND A BAD NON FOR THE M249 SCRAPER. THE CORRECT NON IS NON 5120-01-598-4301 AND IT'S IN THE NEWEST TM VERSION. THE M240 SCRAPER COMES WITH NON 4933-01-033-1504.

OR YOU CAN ORDER THE NEW M240/M249 SCRAPER. THE TOOL, WHICH FOLDS UP LIKE A SWISS ARMY KNIFE, HAS EIGHT DIFFERENT SCRAPERS!











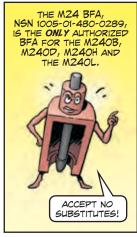


THE M21 BFA DOESN'T HAVE AN OVERALL NON, BUT INSTEAD HAS THREE SEPARATE COMPONENTS:

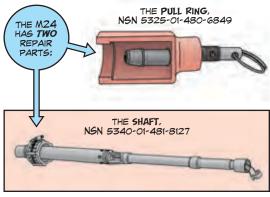
- chamber and discriminator assembly, NSN 1005-01-142-2841
- weapon spare parts ordnance bag, NSN 8105-01-147-9841
- M1/MA1 tank firing attachment adapter, NSN 1005-01-218-0693



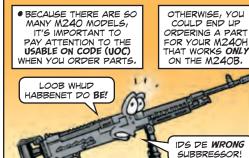












HERE ARE THE M240 UOCS...

M240: G69 M240B: BB2 M240C: L04 M240D: BC2

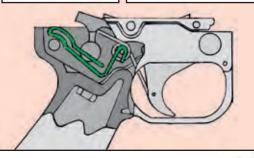
M240H: BN4

THE LIOCS ARE ALSO LISTED IN TM 9-1005-313-23&P.

• REMEMBER, YOU MUST REPLACE THE M240L SAFETY SPRING, NSN 5340-01-550-1620, WHENEVER IT'S REMOVED.

MAKE A NOTE OF THAT IN WP 0017 01 IN THE -23&P.

REMOVE THE SPRING ONLY WHEN ABSOLUTELY NECESSARY. WHICH GAS REGULATOR
YOU USE FOR YOUR M240
MACHINE GUN DEPENDS
ON WHICH BARREL YOU'RE
USING, THE SAME GOES
FOR THE REGULATOR
CLEANING TOOL.





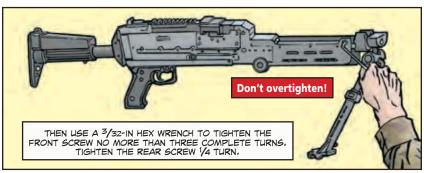
THE M240B STANDARD BARREL AND M240L LONG BARREL LISE GAS REGULATOR, NSN 1005-01-512-6424, AND CLEANING TOOL, NSN 1005-01-512-9284.



I USE A
DIFFERENT GAS
REGULATOR AND
A DIFFERENT
CLEANING
TOOL FROM MY
SHORT BARREL
BROTHER!









THEN FUNCTION
TEST THE WEAPON.
IF THE OP ROP
BINDS IN THE GAS
TUBE, BACK OFF
BOTH SCREWS
1/4 TURN.

FUNCTION TEST
AGAIN AND CONTINUE
TO BACK OFF THE
SCREWS 1/4 TURN
UNTIL THE OP ROD
MOVES FREELY IN
THE GAS TUBE.





USE THE RIGHT TOOL FOR THE RIGHT JOB.

THERE'S ONLY **ONE** TOOL FOR ADJUSTING THE FRONT SIGHT POST, AND GUNNERS DON'T HAVE IT. ONLY YOUR SMALL ARMS REPAIRMAN CAN ADJUST THE FRONT SIGHT WITH THE **FRONT SIGHT POST SPANNER WRENCH**, NSN 5120-01-141-3839.

Armorer adjusts post with spanner wrench

IF YOU ADJUST
THE POST WITH
THE USUAL
TOOL-A NAILYOU DAMAGE
THE POST.
THEN YOU CAN
FORGET ABOUT
ACCURATE
SIGHTING.



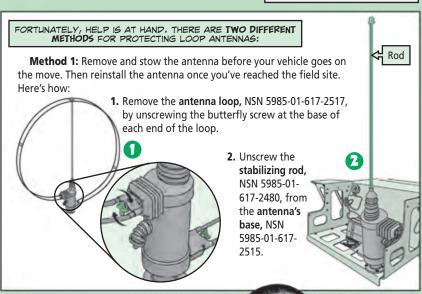




THE SCOOP ON PROTECTING LOOP ANTENNA

UNITS WITH HIMARS, MLRS AND M1068-SERIES COMMAND POST CARRIER CAN TESTIFY IT'S PRACTIC-ALLY IMPOSSIBLE TO GO TO THE FIELD AND NOT LOSE AT LEAST ONE AS-4701/VRC LOOP ANTENNA. ALL IT TAKES IS A LOW-HANGING TREE LIMB.

AT MORE THAN \$3,000 A POP, THE ANTENNAS AREN'T CHEAP TO REPLACE, IF YOU DAMAGE THE WHOLE ANTENNA UNIT, YOU'RE TALKING \$19,000.



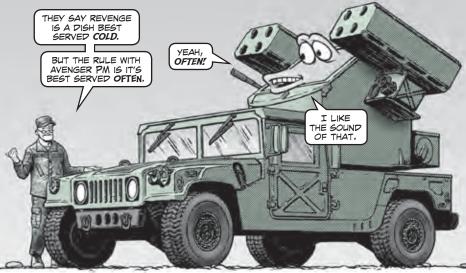
Method 2: Remove and stow the stabilizing rod, then use a piece of cord to tie back the antenna. That keeps the antenna out of the way of low-lying objects. Reinstall the stabilizing rod once you reach the site.

EITHER METHOD TAKES **ONLY** FIVE MINUTES AND REINSTALLATION IS JUST AS FAST. OBVIOUSLY, IT'S TIME WELL SPENT!

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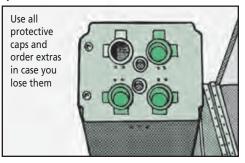
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35 Click here for a copy of this article to save or email. Avenger PM Best Served OFTEN



Get Caps and Covers

In most Avenger units, Avengers sit for long periods. That's why it's critical you use the Avenger's caps and covers. If sand or water gets in the launchers, they can do big-time damage to the cryogenics and electronics. Sand and wind-propelled pebbles can scar the FLIR and range finder lenses. One Avenger unit even found birds nesting inside a launcher.



For the launcher, order the **rear launcher caps** with NSN 5340-00-855-7993 and the **front caps** with NSN 5340-00-157-5624. **Caps for the pressure gauge holes** come with NSN 5340-01-348-6514.

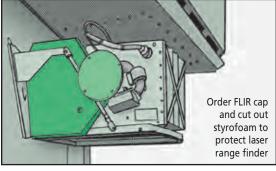
Order caps for the cryogenic ports in the launcher with NSN 5340-01-466-1897. There is no NSN for electrical port caps, but they can be ordered on a DD Form 1348-6 using PN 495-500005 and CAGE 15090.

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Order the **FLIR protective cap** with NSN 5855-01-441-3189. The range finder doesn't have a cover, but you can make one from styrofoam. Cut a piece 12x18 inches and punch a hole in it for the boresight guide pin cover. Stick it in front of the range finder lenses so the support bracket holds it in place.

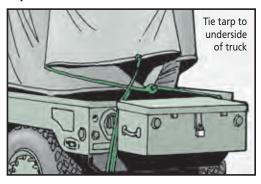


The new CMC FLIR comes with a protective cap that can't be ordered. The old FLIR cap won't fit on the new FLIR. So hang onto that cap!

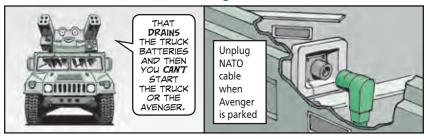
One thing you can count on is that some of these different caps will disappear. Order extras of the ones available! Caps are cheap and launcher damage is expensive. Check for the caps during PMCS.

If your Avenger is going to sit for weeks, which is often the case, the best protection is to cover the entire system. A **Bradley tarp**, NSN 2540-00-587-2532 (**OD green**) or NSN 2540-01-330-8062 (**tan**), works well. But don't tie off the tarp inside the truck. That ruins door seals. Attach bungee cords to the tarp's rope and tie them off underneath the truck.

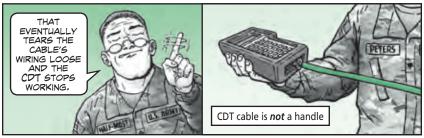
Keep It Covered



Don't Leave the NATO Cable Connected When the Avenger is Parked



Don't Pick Up the Control Display Terminal (CDT) By Its Cable



When You're Not Operating, Store the Shorting Plug Someplace Safe Like the Bustle Box





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OP OF CABLE PROBLEMS

YOU **DISCONNECTED** MY CABLES LIKE YOU'RE S'POSED TO...

...BUT YOU FORGOT TO CAP 'EM!

IF YOU WANT ME TO WORK

NEXT TIME, YOU BETTER

SCREW ON THOSE CAPS!



Dear Editor,

One of the easiest and simplest things Patriot crews can do to prevent electrical problems and system faults is keep cables and their connectors capped.

That seals out moisture and sand that can prevent a good connection and sometimes damage cables. Since some of the Patriot's huge cables can't be repaired and cost thousands to replace, you want to protect them as much as possible.

When cables are connected, screw the cable caps and connector caps together. That makes it impossible for them to disappear.

During PMCS, check for every cable and connector cap and make sure that each cap's lanyard is secure. If a cap or lanyard is missing, report it ASAP. See the parts manuals for the different Patriot systems for cap and lanyard NSNs.

SFC Joseph Evans Ft Bragg, NC



Editor's note: A tip of the cap to your cap suggestion, Sergeant Evans.



Dear Editor,

While repairing M9 pistols here at the Logistics Readiness Center (LRC), we've run into a few problems that need Soldiers' attention:

Using non-approved ammo. We are seeing numerous damaged locking blocks. We think the main cause comes from Soldiers using commercial ammo that's more powerful than standard Army ammo. The recoil spring can't handle the extra force and the locking block cracks. Even if Soldiers are firing the correct ammo, they should make a point to check the locking blocks for cracks before they go to the field.

THAT'S
NOT THE
AMMO
APPROVED
FOR ME.
THAT'LL
CRACK MY
LOCKING
BLOCK!

Easy does it holstering and unholstering the M9. We're seeing too many broken safety levers. We think it's from Soldiers jamming the pistol in the holster. There's no need to be rough with the pistol when you pull it out or put it in the holster. Of course, a broken safety lever makes the pistol NMC. So easy does it. And check for a cracked or bent lever during PMCS.



Click here for a copy of this article to save or email.

Make sure safety mechanism works. Even-tually the safety wears out and stops working. If you don't realize the safety isn't safe, tragedy could follow. You can check in seconds. Put the safety lever in the safe (down position) and gently squeeze the trigger. If the hammer moves to the rear, the safety isn't working. Then cock the hammer with the safety on. If the hammer stays cocked, the safety is shot.

Mauricio Green Ft Bragg, NC



Editor's note: You're right on target with these tips, Mauricio. Thanks.

M2A1 Machine Gun...

Does Flash Suppressor Need Anti-seize Compound?



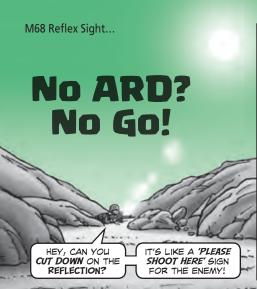
The M2A1 machine gun's TM 9-1005-347-23¢P says to apply a high-temperature anti-seize compound when installing the flash suppressor. But nowhere in the TMs does it list an NSN for the compound.

Do you really need to use the anti-seize compound?

CW4 J.B.

NO, CHIEF.
THE ANTI-SEIZE
COMPOUND
REFERENCE
WAS A MISTAKE
AND IT WILL
BE REMOVED
WHEN THE TM
IS UPDATED.

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Dear Half-Mast,

Is there anywhere in writing that states if the M68 reflective sight's antireflective device (ARD) is missing or damaged the M68 is NMC? Soldiers often remove the ARD because they think they can sight better without it. Then, of

YES CHIEF. STEP
10 IN THE PMCS IN
TM 9-1240-413-13&P
(MAY 13) SAYS IF
THE ARD IS MISSING
OR DAMAGED. THE
MG8 IS NMC.



CW2 G.M.

LEAVE THE ARD ON FOR TWO VERY GOOD REASONS:

1

THE ARD PREVENTS A
REFLECTION FROM SIGNALING
YOUR POSITION TO THE ENEMY.
THAT COULD MEAN THE
DIFFERENCE BETWEEN LIFE AND
DEATH ON THE BATTLEFIELD.



THE ARD PROTECTS THE MG8'S LENS FROM SCRATCHES. IF THE LENS BECOMES TOO SCRATCHED, YOU CAN'T SEE THROUGH IT AND THE SIGHT DOES YOU NO GOOD.

UNITS SHOULD EMPHASIZE TO SOLDIERS THEY SHOULDN'T REMOVE THE ARD.

ARMORERS CAN ORDER REPLACEMENT ARDS WITH NSN 6650-01-479-5386, THEY COST A LITTLE MORE THAN \$40,

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Should New Weapons Be Gaged?



Dear Half-Mast.

We recently were fielded brand new M4A1 carbines. The fielding team told us the M4A1s had already been gaged, but they had no paperwork to validate that. Do new weapons need to be gaged by units before they're fired?

SGT H.B.

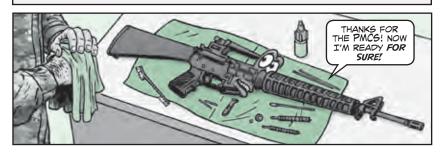
Dear Sergeant,

There is no requirement to gage new weapons. There is, however, in each small arms -23&P TM, a service upon receipt inspection to ensure weapons weren't damaged during shipment. The M16 rifle TM, for example, says that when a new or reconditioned weapon is first received, it's the responsibility of the officer-in-charge to determine whether the weapon had been properly prepared for service by the supplying organization and whether it's mission ready.

But gaging is not required until one year after receipt of the new weapon.

Of course, if you ever have doubts about a weapon's condition, you should have it gaged.

Half-Mas-



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A STRAPPING SOLUTION





HENEVER YOU SHIP OR TRANSPORT CARGO, YOU MIGHT NEED TO STRAP AND SEAL IT FOR PROTECTION.

THAT'S WHEN YOU'LL
DISCOVER THAT
STRAPPING AND SEALING
KITS COME IN HANDY.

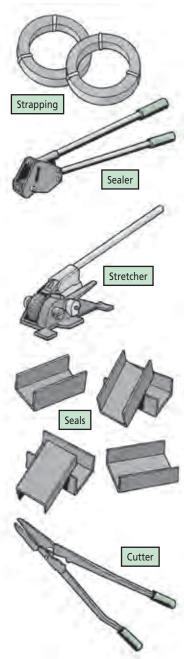
IF YOU DON'T NEED A
WHOLE KIT, YOU CAN
ORDER INDIVIDUAL
COMPONENTS.

WE HAVE SOME OPTIONS ON THE NEXT PAGE!

YOU CAN GET STRAPPING KITS AND COMPONENTS FROM THE GENERAL SERVICES ADMINISTRATION (GSA). TO ORDER KITS OR COMPONENTS, VISIT: https://www.gsaadvantage.gov/advantage/main/home.do

ENTER AN NSN IN THE "PRODUCTS" SEARCH BOX TO GET THE PRICE AND ESTIMATED SHIPPING TIME.

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Click here for a copy of this article to save or email.



Kit, NSN 3540-00-565-6240

Item	NSN	Qty
Sealer	3540-00-223-8855	1
Stretcher	3540-00-278-1250	1
Case	3540-00-897-5516	1
Seals, 3/8-in	8135-00-239-5285	5,000
Strapping, 3/8-in	8135-00-283-0664	100-lb coil

Kit, NSN 3540-00-565-6241

Item	NSN	Qty
Sealer	3540-00-234-6741	1
Stretcher	3540-00-278-1250	1
Case	3540-00-897-5516	1
Seals, 1/2-in	8135-00-239-5308	5,000
Strapping, 1/2-in	8135-00-283-0666	100-lb coil

Kit, NSN 3540-00-565-6242

Item	NSN	Qty
Sealer	3540-00-234-6742	1
Stretcher	3540-00-278-1250	1
Case	3540-00-897-5516	1
Seals, 5/8-in	8135-00-290-1086	5,000
Strapping, 5/8-in	8135-00-283-0667	100-lb coil

Kit, NSN 3540-00-565-6243

ltem	NSN	Qty
Sealer	3540-00-234-6743	1
Stretcher	3540-00-278-1250	1
Case	3540-00-897-5516	1
Seals, 3/4-in	8135-00-239-5288	5,000
Strapping, 3/4-in	8135-00-283-0668	100-lb coil

Kit, NSN 3540-00-565-6244

Item	NSN	Qty
Sealer	3540-00-223-8592	1
Stretcher	3540-00-278-1251	1
Cutter	5110-00-223-6281	1
Case	3540-00-897-8117	1
Seals, 1 ¹ / ₄ -in	8135-00-239-5294	1,000
Strapping, 1 1/4-in	8135-00-283-0671	100-lb coil

Cold Grub Wins No Ovation!















...AND EVEN RUIN YOUR MEAL!

PON'T LET
THE PUST GET
ME! I'M ALL
THAT STANPS
BETWEEN YOU
ANP COLP
OATMEAL OR
ICY SOUP!

AND IF DUST GETS INTO YOUR MODERN BURNER UNIT (MBU), IT COULD EXTINGUISH THE FLAME...





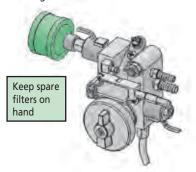
Click here for a copy of this article to save or email.

FOR THE SAKE OF FINE DINING, TAKE A STAND AGAINST DUST. HEED THESE TIPS FOR KEEPING YOUR MBU CLEAN:

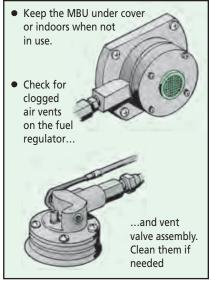
 Place the MBU with the control panel facing into the wind. The panel helps to block wind-blown dust from getting inside.



 After using the MBU, inspect the air filter, NSN 7310-01-462-4913, on the fuel delivery block. Replace the filter if it's dirty. Keep spare filters on hand. Clean the fuel nozzle whenever you change the filter.









FOR **MORE** ON CLEANING AND MAINTAINING YOUR MBU, READ TM 10-7310-281-13&P (MAY 10). DOWNLOAD IT AT THE LDAC ETM WEBSITE: https://idmng.armyerp.mil/



THE GOOD NEWS

IS THAT THERE

ARE TMS FOR THE
AN/GRM-122'S MAJOR
COMPONENT PART, THE
TS-4317/GRM. THEY
INCLUDE...

- TM 11-6625-3244-12 (Mar 06)
- TM 9-6625-3244-24P (Mar 06)
- TM 11-6625-3244-40 (Nov 06).



YOU CAN GET ALL THREE FROM THE LOGISTICS SUPPORT ACTIVITY (LOGSA) ELECTRONIC TECHNICAL MANUALS ONLINE WEBSITE.

TM DISTRIBUTION IS
RESTRICTED, SO YOU'LL
NEED TO LOG IN WITH
YOUR CAC FIRST AT:
https://idmng.armyerp.mil/

CHOOSE THE "ETM/IETM" ICON AND SEARCH FOR THE TMS.

GOT MORE QUESTIONS ABOUT THE AN/GRM-122?

CONTACT CECOM'S DAVID YANOSIK AT DSN 648-6232, (443) 395-6232, OR EMAIL: david.w.yanosik.civ@mail.mil

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AN/GRM-122 Component List

Table I	Com	oonents of Radio Test Set TS-4317/GRN NSN 6625-01-309-2825						
Description		NSN	PN	CAGE Code	Qty			
Front cover		6625-01-611-5414	2503-7862-200	51190	1			
Carrying pouch		8105-01-419-1132	1412-7883-700	51190	1			
Connector, adapter, M-F BNC, right angle		5935-01-032-5404	UG-306/U	81349	1			
Antenna, flex		5985-01-281-5177	1201-7616-500	51190	1			
Cable assembly, AC po	wer	6150-01-252-9297	6041-0001-001	51190	1			
Cable assembly, DC po	wer	5995-01-428-9119	6041-7884-500	51190	1			
Attenuator, 10 dB, 1 W, BNC, 2.0 GHz		5985-01-414-6405	61162	1				
Attenuator, 20 dB		5985-01-414-6413	61162	1				
Fuse, 1.25, GL, slow, 25	50V, 2.0A	5920-00-228-7882	81349	1				
Fuse, 1.25, GL, fast, 25	0V, 4.0A	5920-00-557-2647	F02A250V4A	81349	1			
Fuse, 1.25, GL, slow, 32	2V, 15A	5920-00-581-6126	F02B32V15A	81349	1			
Current shunt, 10A,10	0mV	6625-01-414-3779	7113-7801-100	51190	1			
Probe set, DMM (1 black probe, 1 red p	orobe)	6625-01-414-3780	21078	1				
Kit, probe, oscilloscop X1/REF/X10	e,	6625-01-414-3778	01-414-3778 7112-0100-101 51190					
Microphone		5965-01-414-6414	7001-8645-900	51190	1			

Table II	Coi		est Adapter J 25-01-432-83	r J-4843A/GRM, 8368							
Description		NSN	PN								
Test set subassembly J-4843A/GRM	,	N/A	7003-1543-400	51190	1						
Front cover		5340-01-502-2966	7005-1540-200	51190	1						
Cable assembly, special purpose (SCS	l)	5995-01-413-1849	6041-8380-600	51190	1						
Cable assembly, special purpose (DC	power)	6150-01-413-0578	6041-8380-700	51190	1						
Shield, elec. cable		N/A	2289-7867-600	51190	1						
Shield, elec. cable		N/A	2289-7867-300	51190	1						
Shield, elec. cable		N/A	2289-7867-400	51190	1						



Table III

Components of Test Set Subassembly PL-1536/GRM, NSN 6625-01-432-3819

Description	NSN	PN	CAGE Code	Qty
Test set subassembly, PL-1536/GRM	6625-01-502-3407	7003-1542-500	51190	1
RF cable assembly (short BNC)	5995-01-413-0576	6052-0700-580	51190	5
Antenna matching network	6625-01-413-7331	7005-8340-700	51190	1
Adapter, connector (part of antenna matching network)	5935-01-037-3476	M55339/ 16-00914	81349	1
RF cable assembly (long BNC)	5995-01-413-0580	6052-0701-060	51190	1
Cable assy, special purpose, elec.	5995-01-413-1853	5-01-413-1853 6046-0782-400		1
Nut, plain, hex	N/A	517-4	19505	2
Washer, flat	N/A	1414-1565-700	51190	1
Terminal, lug	N/A	2850-1565-800	51190	1
Cover	5999-01-611-5289	1414-2954-000	51190	1
Cable assy, special purpose, elec.	5995-01-413-1852	6041-7885-200	51190	1
Cable assy, radio frequency	5995-01-413-0851	0021-83J0-100	51190	1
Maintenance kit, electronic equip.	6625-01-436-0420	7001-1542-400	51190	1
Test set subassembly	N/A	0021-DKE0-100	51190	1



GET THE LEAD OUT...NOT!







NEED LEAD TO HELP MINIMIZE TIN WHISKERS.

Click here for a copy of this

IN TODAY'S
ENVIRONMENTALLYCONSCIOUS WORLD,
IT MAKES SENSE TO
REMOVE HARMFUL
PRODUCTS SUCH AS
LEAD IN TIN-LEAD
SOLDER.



SO, IS IT OK FOR ARMY UNITS TO USE LEAD-FREE SOLDER IN ELECTRONIC REPAIRS OR SIMILAR APPLICATIONS?

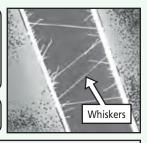


ACTUALLY, NO!
LEAD-FREE SOLDER
IS NOT RECOMMENDED
FOR USE IN ARMY
ELECTRONICS REPAIR.



THE REASON IS THAT LEAD-FREE SOLDER IS HIGHER IN TIN CONTENT. THAT INCREASES THE GROWTH OF TIN WHISKERS, WHICH ARE SMALL, HAIR-LIKE FILAMENTS THAT POP UP ON ELECTRONIC COMPONENTS.





A MINIMUM THREE
PERCENT LEAD (CHEMICAL
ELEMENT Pb) CONTENT
IS REQUIRED WHEN
SOLPERING ELECTRONIC
COMPONENTS.

THIS LEAP REQLIREMENT IS MAKING ITS WAY INTO PERFORMANCE SPECIFICATIONS FOR ELECTRONIC COMPONENTS, LIKE THE GENERAL SPECIFICATION FOR INTEGRATED CIRCUITS (MICROCIRCUITS) MANUFACTURING (MIL-PRF-38535K) AND THE GENERAL SPECIFICATION FOR SEMICONPULCTOR DEVICES (MIL-PRF-1950OP).

THE GLOBAL PUSH TO **RESTRICT** LEAD USE IN ELECTRONICS MANUFACTURING HAS MADE THIS ISSUE AN ONGOING CHALLENGE FOR THE MILITARY.

CURRENTLY, NO SINGLE REPLACEMENT FOR TIN-LEAD SOLDER IS AVAILABLE THAT MEETS **ALL** THE OPERATIONAL AND SAFETY REQUIREMENTS OF DOD.



TOBYHANNA ARMY DEPOT NOW USES SPECIAL SCANNING TECHNOLOGY TO MAKE SURE THE LEAD CONTENT IN COMPONENTS IS SUFFICIENT AND MEETS ARMY SPECS.

FOR MORE BACKGROUND INFO. VISIT THE DEFENSE ACQUISITION UNIVERSITY: https://www.dau.mil/cop/log/Pages/Topics/Lead-Free%20Electronics%20-%20Solder.aspx

FOR TECHNICAL QUESTIONS, CONTACT MICHAEL ORAVITZ AT DSN 795-9055, (570) 615-9055, OR EMAIL: michael.j.oravitz.civ@mail.mil

Online Training Offered for TAS



Whenever an Army hospital deploys, surgical shelters are used as medical-surgical tents in field hospitals. That's why setting up and taking them down correctly is critical.

The TEMPER Air Supported Shelters (TAS) go up twice as fast and are half the weight of legacy models. But it's still a labor-intensive process and they're costly to repair or replace if damaged.

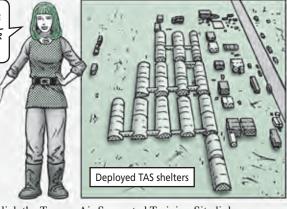
Since TAS is lighter in order to be more mobile, it also means more advance planning is needed. This includes properly preparing the site before deploying the shelters and using heavy material handling equipment. One 64-foot section takes about 15 minutes

to inflate.

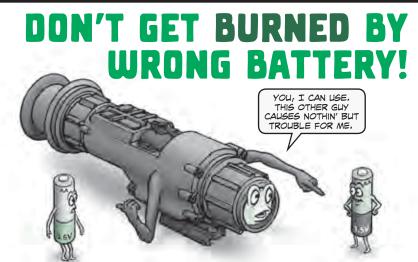
to initate.	ltem	NSN 8340-	LIN
HERE ARE THE SIZE AND COLOR	32-ft tan surgical	016054416	T47813
OPTIONS FOR ORDERING TAS	32-ft green surgical	016548148	T47813
	32-ft tan medical	016054416	T47745
	32-ft green medical	016548148	T47745
	16x20-ft tan central materiel service	016552677	T71755
	16x20-ft green central materiel service	016552662	T71755
8 - 1	19.5-ft tan medical	016553249	T71619
	19.5-ft green medical	016552667	T71619
	64-ft tan medical	016645256	T47745
	64-ft green medical	016645266	T47745
D Paris	64-ft tan surgical	016645221	T47813
1 K	64-ft green surgical	016645242	T47813

TO SUPPORT TRAINING ON SHELTER ASSEMBLIES, THE US ARMY MEDICAL MATERIE DEVELOPMENT ACTIVITY, OR USAMMDA, OFFERS TAS ONLINE TRAINING.

STEP-BY-STEP
TRAINING VIDEOS GUIDE
YOU THROUGH PUTTING
UP AND TAKING DOWN
THE SHELTERS. THE
VIDEOS ARE CACACCESSIBLE AND ALSO
INCLUDE INSTRUCTION
MANUALS.



To access the resources, click the Temper Air Supported Training Site link on: https://www.usammda.army.mil/index.cfm/ project_management/mss/csh_infrastructure



Dear Editor,

One of our Soldiers recently loaded six 3.6V AA lithium batteries in an AN/PAS-13C(V)2 MWTS thermal weapon sight instead of the standard 1.5V AA lithium battery. The sight exploded, burning the Soldier's hands and causing temporary hearing loss.

Please emphasize to Soldiers that they should always use 1.5V AA lithium batteries in their sights, night vision devices and other equipment unless the item's -10 TM says otherwise.

John Gilbert Milwaukee, Wl

S MORE

Click here for a copy of this article to save or email.

EXCELLENT POINT, JOHN,

SINCE ALL AA
BATTERIES ARE
THE SAME SIZE,
IT'S CRITICAL
THAT SOLDIERS
ACTUALLY CHECK
THE VOLTAGE
LISTED ON
THE LITHIUM
BATTERY.

THAT'S THE
ONLY WAY YOU
KNOW FOR SURE
YOU'RE USING A
1.5V AA.

YOU CAN'T
GO BY COLOR
BECAUSE BOTH
BATTERIES COME
IN SEVERAL
COLORS.

UNITS MUST MAKE A POINT TO KEEP
1.5V BATTERIES SEGREGATED FROM
3.6V BATTERIES USED WITH OTHER
PEVICES SO THEY ARENT MIXED UP.

YOU STAY ON YOUR
SIDE AND I'LL STAY
ON MINE!

IF SOLDIERS ARE USING EQUIPMENT THAT DOES USE THE 3.6V BATTERY, THEY SHOULD MAKE SURE TO KEEP THE 3.6V BATTERIES SEPARATE IN THEIR PACKS SO THEY DON'T ACCIDENTALLY USE THE WRONG BATTERY.

A WARNING WILL BE ADDED TO THE VARIOUS -10 AND -23&P TMS THAT SAYS: Using AA batteries other than 1.5V will cause damage to this equipment and may explode, causing serious injury to the user.

DO NOT USE AA BATTERIES OTHER THAN 1.5V.

HERE'S A PARTIAL LIST OF SIGHTS AND NVDS THAT USE 1.5V LITHIUM BATTERIES:

- AN/PAS-13C/D/E/G thermal weapon sights
- AN/PAS-35 night vision viewer
- AN/PAS-36 night vision viewer
- AN/PSQ-20A/B enhanced night vision goggles
- AN/PSQ-39 enhanced night vision goggles III
- AN/PSQ-40 enhanced night vision goggles III
- AN/PVS-7B/D night vision goggles
- AN/PVS-14 monocular night vision device
- AN/PVS-6(V)1/1A/1B/2/3 aviator's night vision imaging systems

OF COURSE, MANY HAND-HELD DEVICES ALSO USE 1.5V LITHIUM BATTERIES. WHEN IN POUBT ABOUT WHAT BATTERY TO USE, ALWAYS CHECK THE -10 TM.





Dear Half-Mast,

Our unit just received some parts we need in the motor pool. Thing is, the parts are individually sealed in bags inside the container they arrived in. Is it OK to remove the bags and store the parts separately or should we leave them in the container?

SGT C.Z.



BAGS ARE
EAGILY
DAMAGED
AND CAN
QUICKLY RACK
UP TEARS OR
PINHOLES.

DAMAGED BAGS ALLOW WATER VAPOR TO SEEP IN AND CAUSE CORROSJON.



TB 55-46-1 Updated

Technical Bulletin (TB) 55-46-1, Standard Characteristics (Dimensions, Weight, and Cube) for Transportability of Military Vehicles and Other Outsize/Overweight Equipment, has been revised. The Feb 18 update gives dimensions, weights and other specs for military vehicles, vehicle-mounted equipment and other outsize/overweight equipment. The TB is a standard reference for developing and reporting movement requirements. Get it at the LDAC ETM website:

https://idmng.armyerp.army.mil/

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Does No NSN Mean No Part?

Dear Half-Mast,

I'm trying to order parts for installing commo equipment in our unit's vehicles. Many parts don't have NSNs, just part numbers (PNs). But when I try to order by PNs, the supply shop keeps telling me I've got to have NSNs or I won't get what I need.

Stumped Sergeant

HAVING AN NSN
ASSIGNED TO EVERY ARMY
ITEM ON EARTH WOULD BE
GREAT, BUT IT'S JUST NOT
POSSIBLE, SERGEANT.

FACT IS, IF AN NSN WAS MANDATORY FOR EVERY MILITARY PART, NONE OF OUR EQUIPMENT WOULD BE RUNNING. THE COST IS JUST TOO HIGH. ALTHOUGH THERE ARE LOTS OF NSNS, AND THEY'RE HANDY WHEN REORDERING PARTS, THERE ARE PLENTY OF PARTS WITHOUT 'EM.



SO HOW POES A
SAVVY SOLDIER
WORK AROUND THE
NO-NSN ISSUE?



for a copy of this article to save or email.

- First, make sure there is no NSN. There are several sources to identify NSNs by CAGE and PN. Try the following:
 - a. NATO Master Cross Reference List (NMCRL):

https://www.nato.int/structur/AC/135/nmcrl/nmcrl_e/index.html

- b. WebFLIS: https://fp.logisticsinformationservice.dla.mil/webflis or https://www.webflis.info/
- c. FedMall: https://www.fedmall.mil/index.html
- d. FED LOG: Download from FedMall in the FED LOG corridor.
 Ouestions? Email: FEDLOG@dla.mil
- e. If your Internet connection is limited or you don't have an account for the above databases, contact the DLA Customer Interaction Center toll free at 1-877-352-2255, or email: dlacontactcenter@dla.mil
- 2. If Step 1 yields no NSN, then prepare a DD Form 1348-6, DOD Single Line Item Requisition System Document. This form gives you a workaround to order what you need, even when an NSN doesn't exist. First, download it at:

http://www.esd.whs.mil/Portals/54/Documents/DD/forms/dd/dd1348-6.pdf

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FILL OUT AS MANY OF THE IDENTIFYING DATA BLOCKS (BLOCKS I TO 11) AS YOU CAN ABOUT THE PART YOU WANT. THE MORE DETAILS, THE BETTER. THERE'S A GUIDE TO COMPLETING THE DATA BLOCKS ON THE NEXT PAGE.



Block Number	Legend	Instructions
1	Manufacturer's code and part number (PN)	Enter the item's Commercial and Government Entity (CAGE) code when available, followed by the complete PN.
2	Manufacturer's name	Enter the manufacturer's name and address (including zip code, if known) when the CAGE is not available.
3	Manufacturer's catalog identification	Enter the manufacturer's catalog identification number when available.
4	Date	Enter the date of the publication in calendar date format (YYMMDD).
5	Technical order number	Enter the applicable order number in which the requested item may be defined.
6	Technical manual number	Enter the applicable TM number in which the requested item may be defined.
7	Name of item requested	Enter the appropriate name of item requested.
8	Description of item requested	Enter the description of item requested and, if necessary, attach exhibits or pictures.
8a	Color	Enter the color of item requested, if applicable.
8b	Size	Enter the size of item requested, if applicable.
9	End item applicable	Enter the name of the applicable end item for which the requested item applies. Entry should cite NSN and/or nomenclature. If application is unknown, enter "unknown".
9a	Supply source	Enter the supply source of the applicable end item, if known.
9b	Make	Enter the manufacturer's make of the applicable end item, if known.
9с	Model number	Enter the manufacturer's model number of the applicable end item, if known.
9d	Series	Enter the manufacturer's series number of the applicable end item, if known.
9e	Serial number	Enter the serial number of the end item, if known. If a unique item identifier (UII) is available, enter in Block 11 (prefixed with "UII").
10	Requisitioner	Enter your name, commercial or DSN number and address, including ZIP code.
11	Remarks	Enter any additional information which will assist the supply source to get the correct item. If there's no NSN for the item, write "No NSN available."





WEESITE HELPS WITH HAZMAT



THERE'S
A NEW SITE
TO ANSWER
YOUR HAZMAT
QUESTIONS.

THE PEFENSE ACQUISITION UNIVERSITY HAZMAT PACKING AND TRANSPORTATION HELP WEBSITE OFFERS THE LATEST REGULATIONS, HAZMAT SHIPPING APVICE, TRAINING LINKS AND MORE.

TO ACCESS THE SITE, YOU'LL NEED A DAU ACCOUNT. SUBMIT ACCOUNT ACCOUNT SHORT ACCESS REQUEST (SAAR): https://saar.dau.mil

ONCE YOU'RE THERE, CLICK THE DROP DOWN MENU UNDER <u>SYSTEM</u> <u>ASSOCIATION</u> AND SELECT DAU HOMEPAGE. MAKE SURE TO DOUBLE CHECK YOUR EMAIL ADDRESS, THAT'S WHERE DALI WILL SEND YOUR LOGIN CREDENTIALS,

AFTER YOU'VE RECEIVED YOUR CREPENTIALS, GO TO THE DAU COMMUNITY HUB AND LOOK UP HAZARDOUS MATERIALS PACKAGING AND TRANSPORTATION,

QUESTIONS? EMAIL LOGGA PGCC: usarmy.tyad.usamc.mbx.pt@mail.mil

GCSS-Army...

My Kingdom for a Help Desk



Dear Half-Mast,
Since GCSS-Army
was rolled out to
units at different
intervals, logistician's
levels of knowledge
about the system are
all over the place. Is
there a centralized
location that logistics
professionals can go
to ask questions
about GCSS-Army?

SSG M.Z.

SOUNDS LIKE YOU NEED THE GCSS-ARMY HELP DESK, SERGEANT. HERE'S THE LINK: https://gcss.army.mil/help desk/help desk



THE MARK MACT | 1 | 111C AC

ONCE YOU'RE THERE, FOLLOW THE INSTRUCTIONS ON THE PAGE, YOU'LL HAVE TO **REGISTER** WITH YOUR CAC SINCE YOU'RE A FIRST TIME USER.

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New Army Crypto Support Portal

Check out the new main software download portal for Army cryptographic products software updates, documentation, management software or licenses. Go to:

https://spcs.kc.army.mil/sites/cryptomodportal/default.aspx

Many FSTs No Longer Mandatory

On Page 53 of PS 794, the article referenced AR 40-5's requirement for field sanitation teams (FSTs). That requirement was superseded by Army Directive 2018-07-11, *Prioritizing Efforts—Readiness and Lethality (Update 11)*. The new directive eliminates the requirement for units to have primary and alternate FSTs, unless deployment activities require them. Many thanks to our alert reader, SSG Lowell Barber of CAARNG, for pointing this out!

621G SCRAPER PUSH LOADING

Operators, wondering if "push loading" is allowed for your 621G scraper?

It is!

Just make sure you do it right. Pages 10-13 of WP 0005 in TM 5-3805-296-10 (Sep 12) has the complete scoop.

HMMWV High Seat Kit

To modify your HMMWV driver's and commander's seats into high backs, order the green seat kit with NSN 2540-01-393-3796 or the tan seat kit with NSN 2540-01-408-7049. The kits are limited, however, because the contract wasn't renewed due to testing requirements. When they're gone, you'll have to order the individual parts in TACOM drawings 57K0290 (green) and 57K0291 (tan). Request a copy by email at:

usarmy.redstone.asc.mbx.psmag@mail.mil

POCs For MHE Help

For logistics support of material handling equipment (MHE) such as forklifts, container handlers and cranes, contact the MHE team mailbox at:

usarmy.detroit.tacom.mbx.ilsc-mhe@mail.mil
For maintenance issues, contact the MHI
maintenance team leader, Matthew Hinton, at:

matthew.e.hinton.civ@mail.mil

For MHE supply issues, contact the MHE supply team leader, Amy Gilley at:

amv.l.gillev4.civ@mail.mil

NSNs for FMTV Door Handles

Previous TMs didn't list separate NSNs for the left and right FMTV door handles. But Fig 1234.5 of TM 9-2320-391-23&P in IETM EM 0369 (Oct 17) now includes this full list of left and right handles, plus necessary hardware:

Item	Left side NSN	Right side NSN
Door handle	2540-01-376-3998	2540-01-376-3999
Door latch	2540-01-375-7995	2540-01-375-7994
Actuator	3010-01-377-6805	3010-01-375-7323
Connecting rig link (pkg of 1)	3040-01-505-9348	3040-01-505-9359
Connecting rig link (pkg of 2)	3040-01-505-9352	3040-01-505-9354

Click here for a copy of these articles to save or email.

M1095 Trailer ABS Light Cap

Replace missing ABS light caps on M1095 flatbed trailers with NSN 5340-00-200-5904. This replaces NSN 5340-01-512-9064, which is shown as Item 22 in Fig 10 of TM 9-2330-394-13&P-2 (Sep 15). They're inexpensive at \$0.18 each, so order some extras to keep on hand.

M1089A1P2 FMTV BII KIT

Don't be surprised to find a 20-ton hydraulic jack, NSN 5120-01-627-2079, and an amber warning light, NSN 6220-01-645-5767, in the BII kit for the M1089A1P2. They're supposed to be there, even though they're not listed in TM 9-2320-333-13&P (Jun 15). A 12-ton hydraulic jack, NSN 5120-01-573-5935, and another amber warning light, NSN 6220-01-433-5828, are also part of the kit. They're already listed in the TM. The other two items will be included in the next revision.

A1P2 FMTV EPHU Cap NSN

Get a replacement protective cap for your A1P2 FMTV electric hydraulic power unit (EPHU) with NSN 5340-01-646-6963. The old NSN 5340-01-590-0054, listed as Item 15 in Fig 220 for the 2.5-ton model and Fig 1220 for the 5-ton and 10-ton models, of TM 9-2320-333-13&P in IETM 0294 (Jun 15), is a terminal item.

POWER GEN TRAINING PUB RELEASED

Soldier Training Publication No. 9-91D13-SM-TG, Soldier's Manual and Training Guide, Tactical Power Generation Specialist MOS 91D Skill Levels 1, 2, and 3 (Oct 18), is out. Trainers and first-line supervisors should make sure 91Ds get it. It's at the Army Publishing Directorate:

https://armypubs.army.mil

Or the Central Army Registry:

https://atiam.train.army.mil/catalog/dashboard

Here's the Dish on New DSCS TM

TM 11-5895-1829-13&P (Oct 18) covers operator maintenance and RSPTL for the AN/FYQ-110C, defense satellite communications system (DSCS) operational support system, NSN 5895-01-538-5774. TM distribution is restricted, so you'll need to log in with your CAC to:

https://idmng.armyerp.army.mil/

Choose the "ETM/IETM" icon and search for the TM.

LMTV/FMTV Power Steering Gasket

The LMTV power steering gasket, NSN 5330-01-387-2165, shown as Item 3 in Fig 202 of TM 9-2320-391-23&P (IETM EM 0369, Oct 17), will not be replaced once stock is depleted. Instead, order the next higher assembly, **the power steering reservoir**, NSN 2530-01-399-4207. It's shown as Item 1 in Fig 202 of the IETM.

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